Northern Marianas College
CURRICULUM ACTION REQUEST

Effective Semester / Session:  Fall 2012

Type of Action:  
- [ ] New
- [x] Modification
- [ ] Move to Inactive (Stop Out)
- [ ] Cancellation

Course Alpha and Number:  ED 247

Course Title:  Medical Implications of Special Education

Reason for initiating, revising, or canceling:
Move from Inactive (Stop Out) to Active.

Proposer Date

Roy Greenland
Proposer

Date

8/13/12

Jose Herrera, Acting Director, School of Education
Department Chair

Date

Barbara Merfalen
Dean of Academic Programs and Services

Date

8/13/12
1. **Department**  
   School of Education

2. **Purpose**  
   Many students with special needs have medical conditions associated with their disability. This course provides prospective special educators with a functional knowledge of common medical conditions and diseases frequently associated with persons with disabilities.

3. **Description**
   
   A. **Required/Recommended Textbook(s) and Related Materials**  
      There are no required textbooks. Students will be provided with updated course materials related to each medical condition and disease.

   B. **Contact Hours**
      1. Lecture: 3 hours per week / 45 hours per semester  
      2. Lab:  
      3. Other:

   C. **Credits**
      1. Number: 3  
      2. Type: Regular degree units

   D. **Catalogue Course Description**
      This course provides prospective special educators with a functional knowledge of common medical conditions and diseases frequently associated with persons with disabilities. Prerequisite: A grade of C or higher in EN 101. (Offered Fall and Spring)

   E. **Degree or Certificate Requirements Met by Course**
      This is a required course for all education majors with a concentration in Special Education.

   F. **Course Activities and Design**
      This course may incorporate any or all of the following: Short lecture, discussions, videos, online activities, group activities, student projects, presentations, written assignments, field experience, reflection papers, and activities for use in the classroom.
4. **Course Prerequisite(s); Concurrent Course Enrollment; Required English/Mathematics Placement Level(s)**
   Prerequisite(s): A grade of C or higher in EN 101.

5. **Estimated Cost of Course; Instructional Resources Needed**
   Cost to the Student: Tuition for a 3-credit course and any pertinent instructional material fees.

   Cost to the College: Instructor's salary, Internet, and Curriculum Resource Center (CRC) resource materials.

   Instructional resources needed for this course include Internet, and Curriculum Resource Center (CRC) resource materials.

6. **Method of Evaluation**
   Student grades will be based on the regular letter grade system as described below:

   A: Excellent – grade points: 4.0;
   B: Above average – grade points: 3.0;
   C: Average – grade points: 2.0;
   D: Below average – grade points: 1.0;
   F: Failure – grade points: 0.0.

   NMC's and SOE's grading and attendance policies will be followed.

7. **Course Outline**
   This is a topical outline and does not necessarily indicate the sequence in which the material will be presented.

   1.0 Down's Syndrome / Tri-Somy 21
      1.1 Congenital heart defects
      1.2 Atlanto-axial defect
      1.3 Upper respiratory complications
      1.4 Short-term memory complications

   2.0 Seizure Disorders
      2.1 Neurological seizures
      2.2 Idiopathic seizures
      2.3 Pharmacology of seizure control
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3.0 Neural Tube Defects
   3.1 Encephalocele
   3.2 Spina Bifida
   3.3 Hydrocephalus

4.0 Autism Spectrum Disorders
   4.1 Pervasive developmental disorder
   4.2 Attention Deficit Disorder (ADD)
   4.3 Asperger's Syndrome
   4.4 Fragile X Syndrome
   4.5 Pharmacology

5.0 Muscular-Skeletal Conditions
   5.1 Cerebral palsy
   5.2 Muscular dystrophy
   5.3 Multiple sclerosis
   5.4 Pharmacology

6.0 Psychiatric Conditions
   6.1 Depression
   6.2 Psychosis and schizophrenia
   6.3 Bi-polar affective disorder
   6.4 Pharmacology

7.0 Emotional Disorders
   7.1 Conduct disorders
   7.2 Personality disorders
   7.3 Adjustment disorders
   7.4 Phobias
   7.5 Pharmacology

8.0 Hematological Conditions
   8.1 Leukemia
   8.2 Hemophilia
   8.3 Physical intervention
   8.4 Pharmacology

9.0 Low Incidence Syndromes and Conditions
   9.1 Tuberous sclerosis
   9.2 Microcephaly
   9.3 Hurlers' Syndrome
   9.4 Tourette's Syndrome
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10.0 Infectious Diseases
10.1 HIV/AIDS
10.2 Hepatitis
10.3 Fluid management practice

8. Instructional Goals
This course will introduce students to:

1.0 Down’s Syndrome / Tri-Somy 21;
2.0 Neural tube defects;
3.0 Seizure disorders;
4.0 Pre-natal conditions due to chemical trauma;
5.0 Autism Spectrum Disorders;
6.0 Muscular-skeletal conditions;
7.0 Psychiatric conditions;
8.0 Emotional disorders;
9.0 Hematological conditions;
10.0 Low incidence syndromes and conditions;
11.0 Infectious diseases;
12.0 The use of technology in instruction; and
13.0 Service learning as a method of enhancing learning and application of course activities and objectives.

9. Student Learning Outcomes
Upon successful completion of this course, students will be able to:

1.0 Define and describe Down’s Syndrome / Tri-Somy 21;
2.0 Define and describe neural tube defects;
3.0 Define and describe seizure disorders;
4.0 Define and describe pre-natal conditions due to chemical trauma;
5.0 Define and describe Autism Spectrum Disorders;
6.0 Define and describe muscular-skeletal conditions;
7.0 Define and describe psychiatric conditions;
8.0 Define and describe emotional disorders;
9.0 Define and describe hematological conditions;
10.0 Define and describe low incidence syndromes and conditions;
11.0 Define and describe infectious diseases;
12.0 Use computer, multimedia, and electronic technology in instruction; and
13.0 Participate in service learning to enhance learning and application of course activities and objectives.

10. Assessment Measures
Assessment of student learning may include, but not be limited to, the following:

1.0 Class participation;
2.0 Student presentations and activities; and
3.0 Midterm and final examinations.